Integra

65°

945 mm

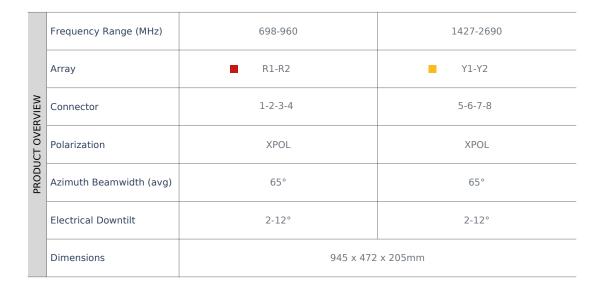
Amphenol ANTENNA SOLUTIONS

5767400R

5767400RG 5767400RDx

Quad Band, 8-Port, 65°, XPOL, Panel Antenna, Variable Tilt, 945 mm

- Quad band antenna, dual polarisation, 8 connectors
- Integra compatible ability to upgrade and recycle, saving 50% carbon emission
- Independent tilt on each band 2-12° / 2-12° / 2-12° / 2-12°
- Our patented, RET module controlling all tilt angles, fully inserted inside the antenna (field replaceable).
- MET and RET versions, 3GPP/AISG2.0, in multiple single RET (multiple device type1) or in Multi-RET (device type 17, with firmware above MD3.10).
- 5G optimal integration with optional mMIMO & 8T8R Hybrid Kits (compatibility list available on request).





ORDERING OPTIONS Select from the different options listed below

SELECT ELECTRICAL DOWNTILT CONTROL & AISG PROTOCOL	SELECT ACTUATOR	SELECT CONNECTOR TYPE	ANTENNA MODEL NUMBER
Manual Electrical Tilt (MET)		4.3-10 Female	5767400R
Remote Electrical Tilt (RET)	Multi-Device Control Unit (MDCU)	4.3-10 Female	5767400RG
AISG v2.0 / 3GPP	Multi-Device Dual Unit (MDDU)	4.3-10 Female	5767400RDx*

^{*}Pre-commissioned configuration; Contact Amphenol for further details.







5767400R

5767400RG 5767400RDx

Quad Band, 8-Port, 65°, XPOL, Panel Antenna, Variable Tilt, 945 mm

ELECTRICAL SPECIFICATIONS Ultra Low Band

R1

Frequency R	ange	MHz		698-960		
		MHz	698-806	790-862	880-960	
Polarization				±45°		
Gain	Over all Tilts	dBi	10.6 +/- 0.8 11.1 +/- 0.5		11.4 +/- 0.6	
Azimuth Bea	mwidth	degrees	78.8° +/- 4.5 74.2° +/- 4.0 68.4° +,			
Elevation Be	amwidth	degrees	21.8° +/- 1.4 20.3° +/- 1.6 17.8° +/- 1			
Electrical Do	wntilt	degrees	2°-12°			
Impedance		Ohms	50			
VSWR (Retur	n Loss)	(dB)	< 1.5 (>14)			
Passive Inter 3rd Order for	modulation - 2 x 20W Carriers	dBc		< -153		
Front-to-Bacl	k Ratio, Total Power, ±30°	dB	>25.8	>26.7	>25.0	
Upper Sidelo	be Suppression, Peak to 20°	dB	>22.0	>22.0	>21.6	
Cross Polar E Sector Edges	Discrimination (XPD) (±60°)	dB	>6.6 >7.3 >6.1			
Maximum Ef	fective Power Per Port	Watts	'	250 W		
Inter/Intra Cl	uster Isolation	dB	> 25.0 / > 24.0	> 25.0 / > 25.0	> 25.0 / > 25.0	

All parameters are compliant with BASTA revision V12.0

ELECTRICAL SPECIFICATIONS Ultra Low Band

■ R2

Frequency Range MHz		MHz	698-960					
		MHz	698-806	790-862	880-960			
Polarization				±45°				
Gain	Over all Tilts	dBi	10.4 +/- 0.6 11.1 +/- 0.5		11.4 +/- 0.5			
Azimuth Beam	nwidth	degrees	79.5° +/- 4.9	73.6° +/- 3.1	68.7° +/- 4.5			
Elevation Bear	mwidth	degrees	21.9° +/- 1.8 20.5° +/- 1.3 18.0° +/- 1.8					
Electrical Dow	ntilt	degrees	2°-12°					
Impedance		Ohms	50					
VSWR (Return	Loss)	(dB)	< 1.5 (>14)					
Passive Interm 3rd Order for 2	nodulation 2 x 20W Carriers	dBc		< -153				
Front-to-Back	Ratio, Total Power, ±30°	dB	>24.5	>25.8	>24.4			
Upper Sidelob	e Suppression, Peak to 20°	dB	>22.0	>22.0	>22.0			
Cross Polar Dis Sector Edges (scrimination (XPD) (±60°)	dB	>7.3 >7.1 >6.6					
Maximum Effe	ective Power Per Port	ctive Power Per Port Watts 250 W						
Inter/Intra Clus	ster Isolation	dB	> 25.0 / > 24.0	> 25.0 / > 25.0	> 25.0 / > 25.0			

All parameters are compliant with BASTA revision V12.0



5767400R

5767400RG 5767400RDx

Quad Band, 8-Port, 65°, XPOL, Panel Antenna, Variable Tilt, 945 mm

ELECTRICAL SPECIFICATIONS MEGA Wide Band

VI

Frequency Ra	ange	MHz			1427-2690				
		MHz	1427-1518	1695-1880	1920-2180	2300-2500	2490-2690		
Polarization				±45°					
Gain	Over all Tilts	dBi	13.1 +/- 0.5	13.8 +/- 0.6	14.5 +/- 0.6	14.9 +/- 0.5	15.4 +/- 0.6		
Azimuth Beamwidth de		degrees	74.2° +/- 4.6	73.2° +/- 4.1	69.4° +/- 6.1	66.5° +/- 4.3	67.9° +/- 4.2		
Elevation Bea	amwidth	degrees	14.3° +/- 1.3				8.6° +/- 0.8		
Electrical Dov	vntilt	degrees	2°-12°						
Impedance		Ohms			50				
VSWR (Return	n Loss)	(dB)	< 1.5 (>14)						
Passive Intered 3rd Order for	modulation 2 x 20W Carriers	dBc			< -153				
Front-to-Back	Ratio, Total Power, ±30°	dB	>24.8	>25.4	>25.6	>23.6	>26.1		
Upper Sidelol	be Suppression, Peak to 20°	dB	>13.0	>14.4	>15.5	>13.9	>12.6		
Cross Polar Discrimination (XPD) Sector Edges (±60°) dB		dB	>6.3	>7.5	>7.1	>7.1	>5.2		
Maximum Eff	ective Power Per Port	Watts	200 W			!			
Inter/Intra Clu	uster Isolation	dB	> 25						

All parameters are compliant with BASTA revision V12.0

ELECTRICAL SPECIFICATIONS MEGA Wide Band

■ Y2

Frequency Range		MHz		1427-2690					
			1427-1518	1695-1880	1920-2180	2300-2500	2490-2690		
Polarization	Polarization			±45°					
Gain	Over all Tilts	dBi	13.2 +/- 0.6	13.9 +/- 0.5	14.4 +/- 0.6	14.9 +/- 0.5	15.2 +/- 0.6		
Azimuth Beamwidth		degrees	69.8° +/- 4.9	72.0° +/- 4.1	69.8° +/- 4.2	67.4° +/- 3.8	68.2° +/- 5.4		
Elevation Bea	mwidth	degrees	s 14.7° +/- 1.2 12.6° +/- 1.1 11.3° +/- 1.0 9.7° +/- 0.5 8.6°			8.6° +/- 0.7			
Electrical Dov	ical Downtilt degrees 2°-12°								
Impedance Ohms			50						
VSWR (Return	n Loss)	(dB)	< 1.5 (>14)						
Passive Interr 3rd Order for	modulation 2 x 20W Carriers	dBc			< -153				
Front-to-Back	Ratio, Total Power, ±30°	dB	>23.6	>25.3	>27.5	>27.6	>29.6		
Upper Sidelob	pe Suppression, Peak to 20°	dB	>12.7	>13.9	>15.1	>11.4	>11.7		
Cross Polar Discrimination (XPD) Sector Edges (±60°) dB		>5.9	>6.0	>6.1	>5.6	>5.3			
Maximum Effective Power Per Port Watts			200 W						
Inter/Intra Clu	ıster Isolation	dB	> 25						

All parameters are compliant with BASTA revision V12.0



Integra compatible

5G Ready

65°

945 mm

5767400R

5767400RG 5767400RDx Quad Band, 8-Port, 65°, XPOL, Panel Antenna, Variable Tilt, 945 mm

ELECTRICAL DOWNTILT CONTROL

For multiband antennas, electrical downtilt for each band can be controlled separately.				
Manual Electrical Tilt (MET) Control	A colored knob at the end of the tilt indicator allows change of the tilt without need of a tool. The knob color is identical to the corresponding connector color. The manual tilt 'override' function is always available with no need to remove the physical RET motor.			
Remote Electrical Tilt (RET) Control	The remote control of the electrical tilt is managed by a Multi-Device Control Unit (MDCU) or a Multi-Device Dual Unit (MDDU) inserted in the bottom of the antenna. See details below and refer to the ordering options to see which actuators are available with this particular antenna. A single actuator individually controls the tilt of each band (no need for daisy chain cables between the bands). This module does not add any additional length to the antenna.			

RET ACTUATOR

Amphenol's RET-READY antennas are delivered with the RET Actuator already installed and pre-commissioned with all antenna parameters. Every RET device is factory configured and calibrated so the antenna is ready to be used once delivered to the site which means that there is no need for further installation of RET devices or for programming their configuration or for running a calibration process.

RET-READY **ACTUATORS** Multi-Device Control Unit (MDCU). The MDCU is an electronic module that allows the remote control of the electrical downtilt (RET) in Amphenol antennas with factory embedded motors. The MDCU is factory installed. Refer to the ORDERING OPTIONS for availability with this model.

Multi-Device Dual Unit (MDDU). The MDDU allows two separate RET Controllers to independently drive the RETs in antennas with factory embedded motors (for antenna sharing or two technologies). The MDDU is factory installed. Refer to the ORDERING OPTIONS for availability with this model.

Number of RET-READY Actuators		One per antenna		
Input Voltage		+10 to +30 V		
Power	Idle State (AISG P1)	0.5 W		
Consumption	High Power Mode (AISG P2)	3 W		
Protocol		3GPP/AISG 2.0		
Tilt Change Duration		Less than 15 seconds, typical (may vary dependent on antenna type and outdoor temperature)		
Precision		±0.5°		
Tilt Change Capa	bility	50,000 minimum		
MDCU		One pair of AISG Male and Female (type IEC60130-9)		
RET Interface MDDU		Two male AISG 8 pin connectors (type IEC60130-9 Ed 3.0)		
Field Replaceable Unit		Yes		
		-		

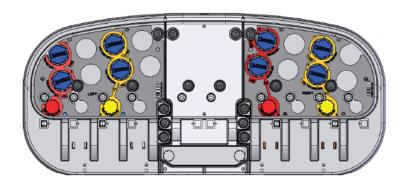
5767400R

5767400RG 5767400RDx

Amphenol

ANTENNA SOLUTIONS

Quad Band, 8-Port, 65°, XPOL, Panel Antenna, Variable Tilt, 945 mm



	Тор		
R1		R2	
Y1		Y2	
Left	Bottom	Right	

Ţ	ARRAY	FREQUENCY	CONNECTOR	CONNECTOR TYPE
ΥO	■ R1	698-960	1-2	4.3-10 Female
7	■ R2	698-960	3-4	4.3-10 Female
RA	Y1	1427-2690	5-6	4.3-10 Female
AR	■ Y2	1427-2690	7-8	4.3-10 Female

Diagram shown at right depicts the view from the front of the antenna. The illustration is not shown to scale.

MECHANICAL SPECIFICATIONS

Length			mm (in)	945 (37.2)
Width		mm (in)	472 (18.6)	
Depth			mm (in)	205 (8.1)
Net Weight - A	Antenna Only		kg (lbs)	24 (52.9)
Mechanical Distance Between Mounting Points		mm (in)	Refer to Diagram	
Windload		Calculation	km/h (mph)	150 (93.2)
(EN 1991-1-4:	2005 using	Frontal	N (lbf)	300 (67.4)
Wind Tunnel C	Coefficients)	Lateral	N (lbf)	205 (46.1)
		Rearside	N (lbf)	337 (75.8)
Operational W	Operational Wind Speed		km/h (mph)	160 (99.4)
Survival Wind	Speed		km/h (mph)	240 (149.2)
Radome Color				Gray RAL7035
Radome Mate	rial			Outdoor Fiberglass
Lightning Protection		ng Protection		Direct Ground
Di	imensions (Le	ength x Width x Depth)	mm (in)	1187 x 540 x 370 (46.7 x 21.3 x 14.6)
Shipping W	eight		kg (lbs)	32 (70.6)
Vo	olume		m³ (ft³)	0.237 (8.423)
			The state of the s	I control to the cont



945 mm

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ENVIRONMENTAL SPECIFICATIONS

Amphenol ANTENNA SOLUTIONS

Environmental Standard		ETS 300 019
Operating Temperature	° C (° F)	-40° to +60° (-40° to 140°)
Product Environmental Compliance		Product is RoHS Compliant

ACCESSORIES All accessories are ordered separately unless otherwise indicated

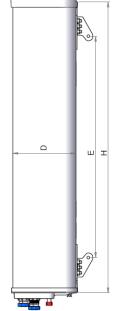
ITEM	MODEL NUMBER	WEIGHT
Brackets for pole Ø48 to Ø115 mm (Ø1.9 to Ø4.5 in) delivered as standard	08464	3.4 kg (7.5 lbs)
Brackets for pole Ø70 to Ø150 mm (Ø2.8-Ø5.9 in) optional	O8465	3.9 kg (8.6 lbs)
Kit to add mechanical tilt (0° to 10°) to above brackets optional	0900397/00	2.3 kg (5.1 lbs)

$\textbf{INSTALLATION} \ \ \text{Please read all installation notes before installing this product}.$



Always attach the antenna by all mounting points.

Do not install the antenna with the connectors facing upwards.



MAIN DIMENSIONS

Length	Н	mm (in)	945 (37.2)
Width	W	mm (in)	472 (18.6)
Depth	D	mm (in)	205 (8.1)
Distance between mounting points	Е	mm (in)	719 (28.3)